

KEY :

BOREHOLES

- BH1A WINSTONE AGGREGATES
- SHB RR AUCKLAND COUNCIL
- GOH3-5 PDP, DRILLED 2002-2003
- BH01 PDP, DRILLED AUG 2014
- BHA1 PDP, DRILLED DEC 2014
- BH9 TONKIN & TAYLOR
- DW DEWATERING WELL
- BH2B PROJECTED ONTO SECTION LINE

GEOLOGY

- MODIFIED AREAS
- RECENT DEPOSITS
- BASALT
- OBSCURED BASALT
- SCORIA
- TUFF DEPOSITS
- ECBF GROUP
- INFERRED EXTENT OF OBSCURED BASALT
- THREE KINGS CRATER
- ESTIMATED EXTENT OF HIGH PERMEABILITY ZONE (WAITEMATAS)
- SECTION LINE

NOTES:
 1. GEOLOGY BASED PARTLY ON IGNS GEOLOGICAL MAP, SHEET R11. BASE MAP SUPPLIED BY GRANT FISHER INDUSTRIAL GEOLOGY, DATED DEC 01, AND SUBSEQUENTLY AMENDED BY PDP LTD (JAN 08) TO CLARIFY AREAS OF OBSCURED BASALT.

C	GROUNDWATER PEER REVIEW	FEB 15	
B	MINOR AMENDMENT	JUL 14	
A	ISSUED FOR APPLICATION	APR 14	
NO.	REVISION	DATE	APP.

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CLIENT :

PROJECT :

**THREE KINGS RENEWAL
STORMWATER
MANAGEMENT PLAN**

TITLE :

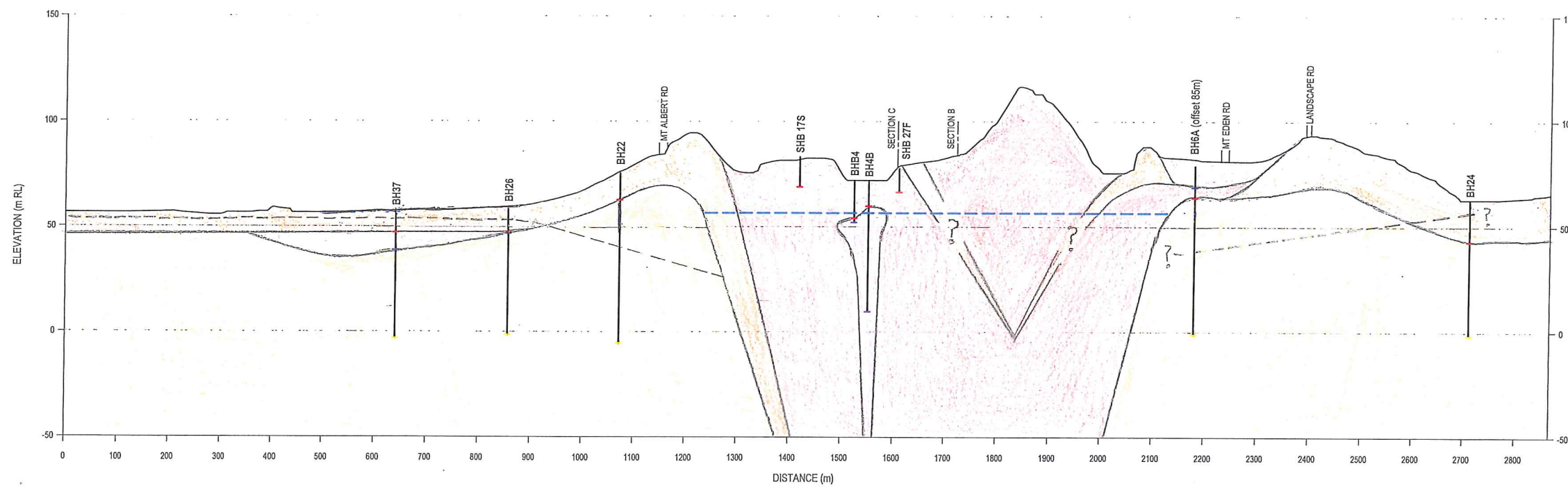
GEOLOGY

PATTLE DELAMORE PARTNERS LTD
 Auckland Tauranga Wellington Christchurch

SCALE 1:10,000 (A3)

PROJECT NO. :	FIGURE NO. :	REVISION :
AJ456300	6	C

FILED : AJ456300D07.dwg



SECTION A-A¹
 HORIZONTAL SCALE 1: 10,000
 VERTICAL SCALE 1: 2,500

KEY :

- BASALT
- SCORIA
- TUFF DEPOSITS
- ECBF GROUP
- BOREHOLE (HOLE ID)
- LONG TERM PERMANENT GROUNDWATER LEVEL
- AVERAGE GROUNDWATER LEVEL

- NOTES:**
1. GEOLOGY BASED ON BOREHOLE LOGS FOR THE HIGHLIGHTED BOREHOLES IN DRAWING AJ456300 DRAWING 6 REVISION C.
 2. GEOLOGY INFORMATION WAS SUPPLEMENTED BY GEOLOGICAL MAPPING OF THE QUARRY PREPARED BY PDP LTD. FOUND IN FILE AJ456300X002 PHOTO MONTAGE APPENDIX.
 3. GEOLOGY INFORMATION WAS SUPPLEMENTED BY IGNS GEOLOGICAL MAP, SHEET R11, BASE MAP SUPPLIED BY GRANT FISHER INDUSTRIAL GEOLOGY, DATED DEC 01, AND SUBSEQUENTLY AMENDED BY PDP LTD (JAN 08) TO CLARIFY AREAS OF OBSCURED BASALT.
 4. GEOLOGY INFORMATION WAS SUPPLEMENTED BY THE GEOLOGICAL UPDATE FOR THREE KINGS QUARRY PREPARED BY GRANT FISHER INDUSTRIAL GEOLOGY, DATED JAN 03.

A	GROUNDWATER PEER REVIEW	FEB 15	
NO.	REVISION	DATE	APP.
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CLIENT :

FLETCHER RESIDENTIAL

PROJECT :

**THREE KINGS RENEWAL
STORMWATER
MANAGEMENT PLAN**

TITLE :

SECTION A-A¹

pdp solutions for your environment

PATTLE DELAMORE PARTNERS LTD
Auckland Tauranga Wellington Christchurch

SCALE AS SHOWN (A3)

PROJECT NO. :	FIGURE NO. :	REVISION :
AJ456300	12	A

FILED : AJ4563000007.dwg

KEY :

- BASALT
- SCORIA
- TUFF DEPOSITS
- ECBF GROUP
- BOREHOLE (HOLE ID)
- LONG TERM PERMANENT GROUNDWATER LEVEL
- AVERAGE GROUNDWATER LEVEL

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A	GROUNDWATER PEER REVIEW	FEB 15	
NO.	REVISION	DATE	APP.
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PROJECT :

**THREE KINGS RENEWAL
STORMWATER
MANAGEMENT PLAN**

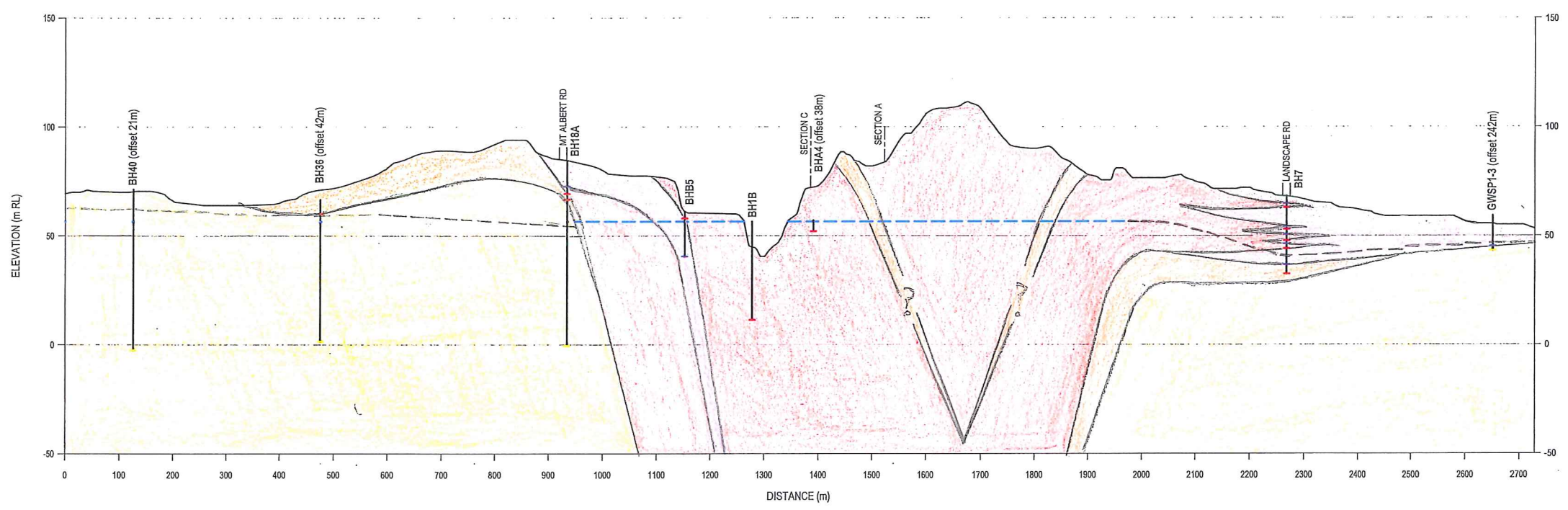
TITLE :

SECTION B-B¹

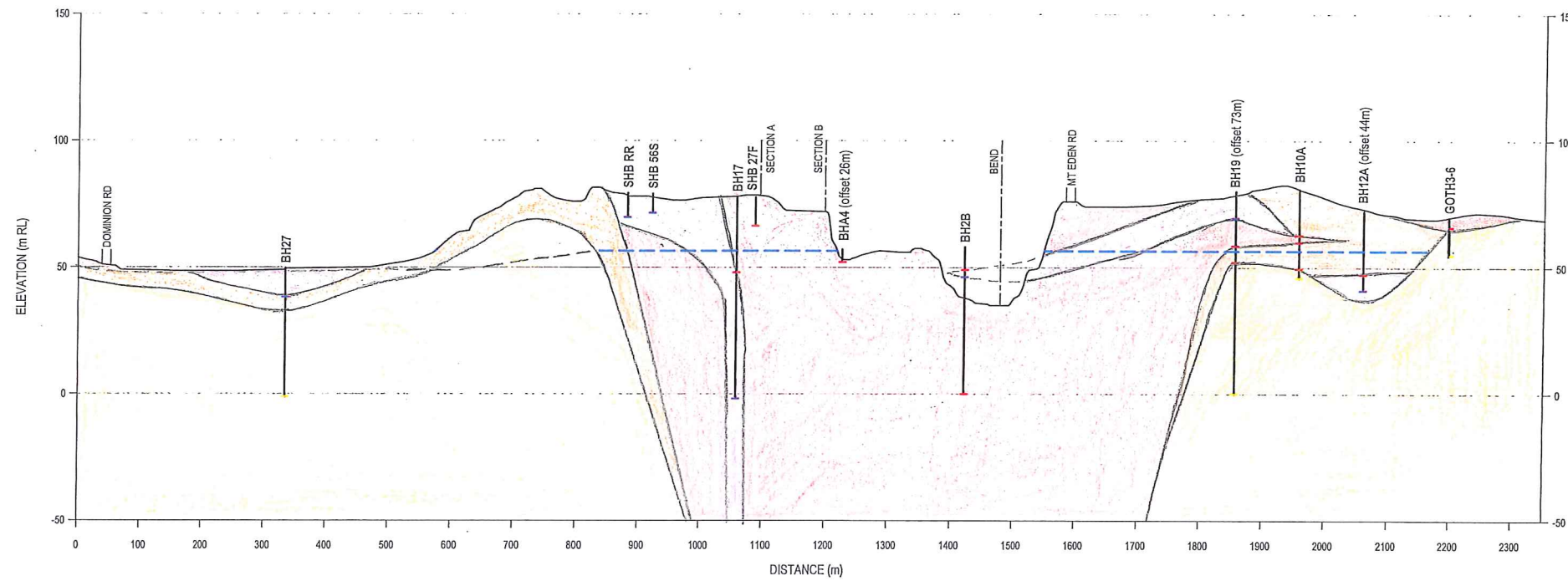
PATTLE DELAMORE PARTNERS LTD
Auckland Tauranga Wellington Christchurch

SCALE AS SHOWN (A3)

PROJECT NO.:	FIGURE NO.:	REVISION:
AJ456300	13	A
FILED : AJ456300D007.dwg		



SECTION B-B¹
HORIZONTAL SCALE 1:10,000
VERTICAL SCALE 1:2,500



SECTION C-C¹
 HORIZONTAL SCALE 1: 10,000
 VERTICAL SCALE 1: 2,500

KEY :

- BASALT
- SCORIA
- TUFF DEPOSITS
- ECBF GROUP
- BOREHOLE (HOLE ID)
- LONG TERM PERMANENT GROUNDWATER LEVEL
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A	GROUNDWATER PEER REVIEW	FEB 15	
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PROJECT :

**THREE KINGS RENEWAL
STORMWATER
MANAGEMENT PLAN**

TITLE :

SECTION C-C¹

solutions for your environment

PATTLE DELAMORE PARTNERS LTD
Auckland Teuranga Wellington Christchurch

SCALE AS SHOWN (A3)

PROJECT NO. :	FIGURE NO. :	REVISION :
AJ456300	14	A

FILED : AJ456300D007.dwg